

# Articles indexats publicats per investigadors del Campus Terrassa: 2015



UNIVERSITAT POLITÈCNICA DE CATALUNYA  
BARCELONATECH

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Campus de Terrassa



# INTRODUCCIÓ

Aquesta pàgina recull els [284 treballs publicats](#) per [218 investigadors/es](#) del Campus de Terrassa en revistes indexades al Journal Citation Report durant el 2015 ([nota metodològica](#)).

[Journal Citation Report](#) és una base de dades, elaborada per l'Institute of Scientific Information, que ofereix un mitjà objectiu i sistemàtic per a avaluar de manera crítica les publicacions capdavanteres mundials. Disponible en edició de ciències i edició de ciències socials, JCR Web cobreix més de 10.000 de les publicacions revisades per coetanis més citades del món d'aproximadament 200 disciplines. És una eina essencial per a bibliotecaris, editors, autors, professors i estudiants, analistes de la informació i altres persones que necessitin conèixer l'impacte i la influència d'una publicació sobre la comunitat investigadora global.





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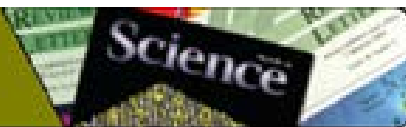
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278. Pop, F.; Dobre, C.; Cristea, V.; Bessis, N.; [Xhafa, F.](#); Barolli, L., 2015. [Deadline scheduling for aperiodic tasks in inter-Cloud environments: a new approach to resource management](#). JOURNAL OF SUPERCOMPUTING. maig 2015. Vol. 71, n° 5, pp. 1754-1765. DOI 10.1007/s11227-014-1285-8.  
**Factor impacte 2015 = 1.088 – Q2**
279. Pop, F.; Dobre, C.; Cristea, V.; Bessis, N.; [Xhafa, F.](#); Barolli, L., 2015. [Reputation-guided evolutionary scheduling algorithm for independent tasks in inter-clouds environments](#). INTERNATIONAL JOURNAL OF WEB AND GRID SERVICES. 2015. Vol. 11, n° 1, SI, pp. 4-20. DOI 10.1504/IJWGS.2015.067159.  
**Factor impacte 2015 = 1.229 – Q2**
280. Poulouvassilis, A.; [Xhafa, F.](#); O'Hagan, T., 2015. [Event-Based Awareness Services for P2P Groupware Systems](#). INFORMATICA. 2015. Vol. 26, n° 1, pp. 135-157.  
**Factor impacte 2015 = 1.386 – Q1**
281. [Xhafa, F.](#); Feng, J.; Zhang, Y.; Chen, X.; Li, J., 2015. [Privacy-aware attribute-based PHR sharing with user accountability in cloud computing](#). JOURNAL OF SUPERCOMPUTING. maig 2015. Vol. 71, n° 5, pp. 1607-1619. DOI 10.1007/s11227-014-1253-3.  
**Factor impacte 2015 = 1.088 – Q2**
282. [Xhafa, F.](#); Li, J.; Zhao, G.; Chen, X.; Wong, D., 2015. [Designing cloud-based electronic health record system with attribute-based encryption](#). MULTIMEDIA TOOLS AND APPLICATIONS. maig 2015. Vol. 74, n° 10, pp. 3441-3458. DOI 10.1007/s11042-013-1829-6.  
**Factor impacte 2015 = 1.331 – Q2**
283. [Xhafa, F.](#); Potlog, A.; Spaho, E.; Pop, F.; Cristea, V.; Barolli, L., 2015. [Evaluation of intra-group optimistic data replication in P2P groupware systems](#). CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE. març 2015. Vol. 27, n° 4, SI, pp. 870-881. DOI 10.1002/cpe.2836.  
**Factor impacte 2015 = 0.942 – Q3**



284. [Xhafa](#), F.; Sánchez, C.; Barolli, A.; Takizawa, M., 2015. [Solving mesh router nodes placement problem in Wireless Mesh Networks by Tabu Search algorithm](#). JOURNAL OF COMPUTER AND SYSTEM SCIENCES. 2015. Vol. 81, n° 8, pp. 1417-1428. DOI 10.1016/j.jcss.2014.12.018.  
**Factor impacte 2015 = 1.583 – Q1**





## Autors més prolífics



19 autors amb 7 o més articles:

19 articles - [Puig Cayuela](#), Vicenç ([23](#), [44](#), [45](#), [71](#), [72](#), [182](#), [189](#), [190](#), [191](#), [192](#), [193](#), [194](#), [195](#), [202](#), [215](#), [230](#), [231](#), [237](#), [238](#))

19 articles - [Xhafa Xhafa](#), Fatos ([266](#), [267](#), [268](#), [269](#), [270](#), [271](#), [272](#), [273](#), [274](#), [275](#), [276](#), [277](#), [278](#), [279](#), [280](#), [281](#), [282](#), [283](#), [284](#))

16 articles - [Oliva Llena](#), Asensio ([4](#), [8](#), [10](#), [16](#), [17](#), [33](#), [78](#), [79](#), [108](#), [118](#), [180](#), [223](#), [224](#), [240](#), [241](#), [242](#))

13 articles - [Staliunas](#), Kestutis ([6](#), [47](#), [51](#), [77](#), [103](#), [106](#), [117](#), [124](#), [136](#), [143](#), [177](#), [226](#), [234](#))

10 articles - [Gil Espert](#), Lluís ([21](#), [22](#), [67](#), [74](#), [99](#), [141](#), [142](#), [156](#), [157](#), [164](#))

10 articles - [Tzanov](#), Tzanko ([59](#), [66](#), [70](#), [75](#), [113](#), [114](#), [163](#), [166](#), [179](#), [243](#))

9 articles - [Lehmkuhl Barba](#), Oriol ([8](#), [10](#), [16](#), [17](#), [33](#), [78](#), [108](#), [118](#), [180](#))

9 articles - [Riba Ruiz](#), Jordi Roger ([198](#), [227](#), [252](#), [253](#), [254](#), [255](#), [256](#), [257](#), [258](#))

8 articles - [Masoller Alonso](#), Cristina ([9](#), [63](#), [145](#), [176](#), [212](#), [213](#), [218](#), [219](#))

8 articles - [Pujol Ramo](#), Jaume ([7](#), [11](#), [52](#), [83](#), [84](#), [100](#), [104](#), [159](#))

8 articles - [Quintanilla De Latorre](#), Ramon ([120](#), [121](#), [126](#), [127](#), [128](#), [129](#), [147](#), [174](#))

8 articles - [Rotondo](#), Damiano ([23](#), [190](#), [191](#), [192](#), [193](#), [194](#), [195](#), [237](#))

7 articles - [Martorell Pena](#), Jordi ([73](#), [92](#), [140](#), [144](#), [160](#), [186](#), [187](#))

7 articles - [Nejjari Akhi-elarab](#), Fatiha ([23](#), [190](#), [191](#), [192](#), [193](#), [194](#), [195](#))

7 articles - [Pou Felix](#), Josep ([31](#), [32](#), [60](#), [91](#), [167](#), [169](#), [246](#))

7 articles - [Rodriguez Cortes](#), Pedro ([86](#), [87](#), [88](#), [133](#), [134](#), [150](#), [196](#))

7 articles - [Roncero Vivero](#), Maria Blanca ([19](#), [20](#), [58](#), [59](#), [171](#), [172](#), [173](#))

7 articles - [Valls Vidal](#), Cristina ([19](#), [20](#), [58](#), [59](#), [171](#), [172](#), [173](#))

7 articles - [Vidal Lluçia](#), Teresa ([19](#), [20](#), [58](#), [59](#), [171](#), [172](#), [173](#))





## Revistes amb més articles



18 revistes amb 3 o més articles:

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	6
ACS APPLIED MATERIALS INTERFACES	6
INVESTIGATIVE OPHTHALMOLOGY VISUAL SCIENCE	5
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW	5
IEEE TRANSACTIONS ON POWER ELECTRONICS	5
PLOS ONE	4
CONSTRUCTION AND BUILDING MATERIALS	4
APPLIED PHYSICS LETTERS	4
SCIENTIFIC REPORTS	3
PHYSICAL REVIEW A	3
OPTOMETRY AND VISION SCIENCE	3
MATERIALS	3
JOURNAL OF COMPUTER AND SYSTEM SCIENCES	3
EXPRESS POLYMER LETTERS	3
ELECTRIC POWER SYSTEMS RESEARCH	3
COMPUTERS FLUIDS	3
CELLULOSE	3
APPLIED ENERGY	3



## Articles amb més impacte



Al 2015 s'han publicat 156 articles en revistes situades al primer quartil d'alguna àrea temàtica del JCR. D'aquests, els 31 articles publicats a revistes de més impacte són:

Pastorelli, F.; Romero, P.; Betancur, R.; Martínez-Otero, A.; Mantilla, P.; Bonod, N.; [Martorell, J.](#), 2015. [Enhanced Light Harvesting in Semitransparent Organic Solar Cells using an Optical Metal Cavity Configuration](#). ADVANCED ENERGY MATERIALS. Vol. 5, núm. 2. ISSN 1614-6832. DOI 10.1002/aenm.201400614.  
**Factor impacte 2015 = 15.230 – Q1**

Maigyte, L.; [Staliunas, K.](#), 2015. [Spatial filtering with photonic crystals](#). APPLIED PHYSICS REVIEWS. Vol. 2, núm. 1. ISSN 1931-9401. DOI 10.1063/1.4907345.  
**Factor impacte 2015 = 14.310 – Q1**

Ghosh, D.S.; Liu, Q.; Mantilla, P.; Chen, T.; Mkhitarian, V.; Huang, M.; Garner, S.; [Martorell, J.](#); Pruneri, V., 2015. [Highly Flexible Transparent Electrodes Containing Ultrathin Silver for Efficient Polymer Solar Cells](#). ADVANCED FUNCTIONAL MATERIALS. Vol. 25, núm. 47, p. 7309-7316. ISSN 1616-301X. DOI 10.1002/adfm.201503739.  
**Factor impacte 2015 = 11.382 – Q1**

Sartori, P.; Pigolotti, S., 2015. [Thermodynamics of Error Correction](#). PHYSICAL REVIEW X. Vol. 5, núm. 4. ISSN 2160-3308. DOI 10.1103/PhysRevX.5.041039.  
**Factor impacte 2015 = 8.701 – Q1**

Labay, C.; [Canal, J.M.](#); Modic, M.; Cvelbar, U.; Quiles, M.T.; Armengol, M.; Arbós, M.A.; Gil, F.J.; Canal, C., 2015. [Antibiotic-loaded polypropylene surgical meshes with suitable biological behaviour by plasma functionalization and polymerization](#). BIOMATERIALS. Vol. 71, p. 132-144. ISSN 0142-9612. DOI 10.1016/j.biomaterials.2015.08.023.  
**Factor impacte 2015 = 8.387 – Q1**

Martínez-Otero, A.; Liu, Q.; Mantilla-Pérez, P.; Montes, M.; [Martorell, J.](#), 2015. [An extremely thin and robust interconnecting layer providing 76% fill factor in a tandem polymer solar cell architecture](#). JOURNAL OF MATERIALS CHEMISTRY A. Vol. 3, núm. 20, p. 10681-10686. ISSN 2050-7488. DOI 10.1039/c5ta02205c.  
**Factor impacte 2015 = 8.262 – Q1**

Chen, C.H.; Cambonie, T.; Lazarus, V.; Nicoli, M.; [Pons, A. J.](#); Karma, A., 2015. [Crack Front Segmentation and Facet Coarsening in Mixed-Mode Fracture](#). PHYSICAL REVIEW LETTERS. Vol. 115, núm. 26. ISSN 0031-9007. DOI 10.1103/PhysRevLett.115.265503.  
**Factor impacte 2015 = 7.645 – Q1**

[Cusola, O.](#); [Valls, C.](#); [Vidal, T.](#); [Tzanov, T.](#); [Roncero, M.B.](#), 2015. [Electrochemical Insights on the Hydrophobicity of Cellulose Substrates Imparted by Enzymatically Oxidized Gallates with Increasing Alkyl Chain Length](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 25, p. 13834-13841. ISSN 1944-8244. DOI 10.1021/acsami.5b01904.  
**Factor impacte 2015 = 7.145 – Q1**

Formica, N.; Mantilla, P.; Ghosh, D.S.; Janner, D.; Chen, T.; Huang, M.; Garner, S.; [Martorell, J.](#); Pruneri, V., 2015. [An Indium Tin Oxide-Free Polymer Solar Cell on Flexible Glass](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 8, p. 4541-4548. ISSN 1944-8244. DOI 10.1021/am5071909.  
**Factor impacte 2015 = 7.145 – Q1**

Francesco, A.; Blandon, L.; Vázquez, M.; Petkova, P.; [Morato, J.](#); Pfeifer, A.; Heinze, T.; Mendoza, E.; [Tzanov, T.](#), 2015. [Enzymatic functionalization of cork surface with antimicrobial hybrid biopolymer/silver nanoparticles](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 18, p. 9792-9799. DOI 10.1021/acsami.5b01670.  
**Factor impacte 2015 = 7.145 – Q1**

[Ivanova, K.](#); [Fernandes, M.M.](#); Francesco, A.; Mendoza, E.; [Tzanov, T.](#), 2015. [Quorum-Quenching and Matrix-Degrading Enzymes in Multilayer Coatings Synergistically Prevent Bacterial Biofilm Formation on Urinary Catheters](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 49, p. 27066-27077. ISSN 1944-8244. DOI 10.1021/acsami.5b09489.  
**Factor impacte 2015 = 7.145 – Q1**



Mantilla-Perez, P.; Martinez-Otero, A.; Romero-Gomez, P.; [Martorell, J.](#), 2015. [4-Terminal Tandem Photovoltaic Cell Using Two Layers of PTB7:PC71BM for Optimal Light Absorption](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 33, p. 18435-18440. ISSN 1944-8244. DOI 10.1021/acsami.5b04537.

**Factor impacte 2015 = 7.145 – Q1**

Zille, A.; [Fernandes, M.M.](#); Francesko, A.; [Tzanov, T.](#); Fernandes, M.; Oliveira, F.; Almeida, L.; Amorim, T.; Carneiro, N.; Esteves, M.; Souto, A., 2015. [Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 25, p. 13731-13744. ISSN 1944-8244. DOI 10.1021/acsami.5b04340.

**Factor impacte 2015 = 7.145 – Q1**

Monadi, M.; Zamani, M.A.; [Candela, J.I.](#); [Luna, A.](#); [Rodriguez, P.](#), 2015. [Protection of AC and DC distribution systems Embedding distributed energy resources: A comparative review and analysis](#). RENEWABLE & SUSTAINABLE ENERGY REVIEWS. Vol. 51, p. 1578-1593. ISSN 1364-0321. DOI 10.1016/j.rser.2015.07.013.

**Factor impacte 2015 = 6.798 – Q1**

Gonzalez, A.; [Riba, J.R.](#); Puig, R.; Navarro, P., 2015. [Review of micro- and small-scale technologies to produce electricity and heat from Mediterranean forests' woodchips](#). RENEWABLE & SUSTAINABLE ENERGY REVIEWS. Vol. 43, p. 143-155. ISSN 1364-0321. DOI 10.1016/j.rser.2014.11.013.

**Factor impacte 2015 = 6.798 – Q1**

[Blesa, J.](#); Jiménez, P.; Rotondo, D.; [Nejjari, F.](#); [Puig, V.](#), 2015. [An Interval NLPV Parity Equations Approach for Fault Detection and Isolation of a Wind Farm](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 6, p. 3794-3805. ISSN 0278-0046. DOI 10.1109/TIE.2014.2386293.

**Factor impacte 2015 = 6.383 – Q1**

[Capella, G.J.](#); Pou, J.; Ceballos, S.; [Zaragoza, J.](#); Agelidis, V.G., 2015. [Current-Balancing Technique for Interleaved Voltage Source Inverters With Magnetically Coupled Legs Connected in Parallel](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 3, p. 1335-1344. ISSN 0278-0046. DOI 10.1109/TIE.2014.2345345.

**Factor impacte 2015 = 6.383 – Q1**

Pou, J.; Ceballos, S.; Konstantinou, G.; Agelidis, V.G.; Picas, R.; [Zaragoza, J.](#), 2015. [Circulating Current Injection Methods Based on Instantaneous Information for the Modular Multilevel Converter](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 2, p. 777-788. ISSN 0278-0046. DOI 10.1109/TIE.2014.2336608.

**Factor impacte 2015 = 6.383 – Q1**

Rojas, J.; Kunusch, C.; Ocampo-Martinez, C.; [Puig, V.](#), 2015. [Control-oriented thermal modeling methodology for water-cooled PEM fuel-cell-based Systems](#). Vol. 62, núm. 8, p. 5146-5154. IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. ISSN 0278-0046. DOI 10.1109/TIE.2015.2405332.

**Factor impacte 2015 = 6.383 – Q1**

Rotondo, D.; [Puig, V.](#); [Nejjari, F.](#); [Romera, J.](#), 2015. [A Fault-Hiding Approach for the Switching Quasi-LPV Fault-Tolerant Control of a Four-Wheeled Omnidirectional Mobile Robot](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 6, p. 3932-3944. ISSN 0278-0046. DOI 10.1109/TIE.2014.2367002.

**Factor impacte 2015 = 6.383 – Q1**

Sanchez, H.; [Escobet, T.](#); [Puig, V.](#); Odgaard, P.F., 2015. [Fault Diagnosis of an Advanced Wind Turbine Benchmark Using Interval-Based ARR and Observers](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 6, p. 3783-3793. ISSN 0278-0046. DOI 10.1109/TIE.2015.2399401.

**Factor impacte 2015 = 6.383 – Q1**

Galione, P.A.; [Perez-Segarra, C.D.](#); [Rodriguez, I.](#); [Oliva, A.](#); [Rigola, J.](#), 2015. [Multi-layered solid-PCM thermocline thermal storage concept for CSP plants. Numerical analysis and perspectives](#). APPLIED ENERGY. Vol. 142, p. 337-351. ISSN 0306-2619. DOI 10.1016/j.apenergy.2014.12.084.

**Factor impacte 2015 = 5.746 – Q1**

[Gangoilells, M.](#); [Casals, M.](#); [Forcada, N.](#); [Macarulla, M.](#); Giretti, A., 2015. [Environmental impacts related to the commissioning and usage phase of an intelligent energy management system](#). APPLIED ENERGY. Vol. 138, p. 216-223. ISSN 0306-2619. DOI 10.1016/j.apenergy.2014.10.070.

**Factor impacte 2015 = 5.746 – Q1**



Gonzalez, A.; [Riba](#), J.R.; Rius, A.; Puig, R., 2015. [Optimal sizing of a hybrid grid-connected photovoltaic and wind power System](#). APPLIED ENERGY. Vol. 154, p. 752-762. ISSN 0306-2619. DOI 10.1016/j.apenergy.2015.04.105.

**Factor impacte 2015 = 5.746 – Q1**

Galaz, G.; Milovic, C.; Suc, V.; Busta, L.; Lizana, G.; Infante, L.; [Royo](#), S., 2015. [Deep optical images of malin 1 reveal new features](#). ASTROPHYSICAL JOURNAL LETTERS. Vol. 815, núm. 2, L29. ISSN 2041-8205. DOI 10.1088/2041-8205/815/2/L29.

**Factor impacte 2015 = 5.487 – Q1**

[Buscio](#), V.; Marin, M.; [Crespi](#), M.; [Gutierrez-Bouzán](#), C., 2015. [Reuse of textile wastewater after homogenization-decantation treatment coupled to PVDF ultrafiltration membranes](#). CHEMICAL ENGINEERING JOURNAL. Vol. 265, p. 122-128. ISSN 1385-8947. DOI 10.1016/j.cej.2014.12.057.

**Factor impacte 2015 = 5.310 – Q1**

Giannakis, S.; Darakas, E.; [Escalas-Cañellas](#), A.; Pulgarin, C., 2015. [Solar disinfection modeling and post-irradiation response of Escherichia coli in wastewater](#). CHEMICAL ENGINEERING JOURNAL. Vol. 281, p. 588-598. ISSN 1385-8947. DOI 10.1016/j.cej.2015.06.077.

**Factor impacte 2015 = 5.310 – Q1**

[Kumar](#), S.; [Herrero](#), R.; [Botey](#), M.; [Staliunas](#), K., 2015. [Taming of Modulation Instability by Spatio-Temporal Modulation of the Potential](#). SCIENTIFIC REPORTS. Vol. 5. ISSN 2045-2322. DOI 10.1038/srep13268.

**Factor impacte 2015 = 5.228 – Q1**

[Montaña](#), J., [Van Der Velde](#), O., Williams, E.R., 2015. [The start of lightning: evidence of bidirectional lightning initiation](#). SCIENTIFIC REPORTS. Vol. 5, núm. 15180. ISSN 2045-2322. DOI 10.1038/srep15180.

**Factor impacte 2015 = 5.228 – Q1**

[Tirabassi](#), G.; Sevilla-Escoboza, R.; Buldu, J.M.; [Masoller](#), C., 2015. [Inferring the connectivity of coupled oscillators from time-series statistical similarity analysis](#). SCIENTIFIC REPORTS. Vol. 5. ISSN 2045-2322. DOI 10.1038/srep10829.

**Factor impacte 2015 = 5.228 – Q1**

[Tena-Campos](#), M.; [Ramon](#), E.; Borroto-Escuela, D.O.; Fuxe, K.; [Garriga](#), P., 2015. [The zinc binding receptor GPR39 interacts with 5-HT1A and GalR\(1\) to form dynamic heteroreceptor complexes with signaling diversity](#). BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR BASIS OF DISEASE. Vol. 1852, núm. 12, p. 2585-2592. ISSN 0925-4439. DOI 10.1016/j.bbadis.2015.09.003.

**Factor impacte 2015 = 5.158 – Q1**



## Articles més citats

A data 31.12.2016 els 284 articles seleccionats havien rebut 824 citacions. 14 d'aquests articles havien rebut 10 o més citacions:

**40 citacions** – Pou, J.; Ceballos, S.; Konstantinou, G.; Agelidis, V.G.; Picas, R.; [Zaragoza, J.](#), 2015. [Circulating Current Injection Methods Based on Instantaneous Information for the Modular Multilevel Converter](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 2, p. 777-788. ISSN 0278-0046. DOI 10.1109/TIE.2014.2336608.

**Factor impacte 2015 = 6.383 – Q1**

**21 citacions** – Rouzbehi, K.; Miranian, A.; [Candela, J.I.](#); [Luna, A.](#); [Rodriguez, P.](#), 2015. [A Generalized Voltage Droop Strategy for Control of Multiterminal DC Grids](#). IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS. Vol. 51, núm. 1, p. 607-618. ISSN 0093-9994. DOI 10.1109/TIA.2014.2332814.

**Factor impacte 2015 = 1.901 – Q1**

**17 citacions** – Salehifar, M.; Arashloo, R.S.; [Moreno-Eguilaz, J.M.](#); [Sala, V.](#); [Romeral, L.](#), 2015. [Observer-based open transistor fault diagnosis and fault-tolerant control of five-phase permanent magnet motor drive for application in electric vehicles](#). IET POWER ELECTRONICS. Vol. 8, núm. 1, p. 76-87. ISSN 1755-4535. DOI 10.1049/iet-pel.2013.0949.

**Factor impacte 2015 = 1.683 – Q2**

**16 citacions** – [Ardanuy, M.](#); Claramunt, J.; Toledo Filho, R.D., 2015. [Cellulosic fiber reinforced cement-based composites: A review of recent research](#). CONSTRUCTION AND BUILDING MATERIALS. Vol. 79, p. 115-128. ISSN 0950-0618. DOI 10.1016/j.conbuildmat.2015.01.035.

**Factor impacte 2015 = 2.421 – Q1**

**15 citacions** – Darus, R.; Pou, J.; Konstantinou, G.; Ceballos, S.; Picas, R.; Agelidis, V.G., 2015. [A Modified Voltage Balancing Algorithm for the Modular Multilevel Converter: Evaluation for Staircase and Phase-Disposition PWM](#). IEEE TRANSACTIONS ON POWER ELECTRONICS. Vol. 30, núm. 8, p. 4119-4127. ISSN 0885-8993. DOI 10.1109/TPEL.2014.2359005.

**Factor impacte 2015 = 4.953 – Q1**

**13 citacions** – Maigyte, L.; [Staliunas, K.](#), 2015. [Spatial filtering with photonic crystals](#). APPLIED PHYSICS REVIEWS. Vol. 2, núm. 1. ISSN 1931-9401. DOI 10.1063/1.4907345.

**Factor impacte 2015 = 14.310 – Q1**

**12 citacions** – Formica, N.; Mantilla, P.; Ghosh, D.S.; Janner, D.; Chen, T.; Huang, M.; Garner, S.; [Martorell, J.](#); Pruneri, V., 2015. [An Indium Tin Oxide-Free Polymer Solar Cell on Flexible Glass](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 8, p. 4541-4548. ISSN 1944-8244. DOI 10.1021/am5071909.

**Factor impacte 2015 = 7.145 – Q1**

**12 citacions** – Gonzalez, A.; [Riba, J.R.](#); Rius, A.; Puig, R., 2015. [Optimal sizing of a hybrid grid-connected photovoltaic and wind power System](#). APPLIED ENERGY. Vol. 154, p. 752-762. ISSN 0306-2619. DOI 10.1016/j.apenergy.2015.04.105.

**Factor impacte 2015 = 5.746 – Q1**

**12 citacions** – Pastorelli, F.; Romero, P.; Betancur, R.; Martinez-Otero, A.; Mantilla, P.; Bonod, N.; [Martorell, J.](#), 2015. [Enhanced Light Harvesting in Semitransparent Organic Solar Cells using an Optical Metal Cavity Configuration](#). ADVANCED ENERGY MATERIALS. Vol. 5, núm. 2. ISSN 1614-6832. DOI 10.1002/aenm.201400614.

**Factor impacte 2015 = 15.230 – Q1**

**11 citacions** – Zhang, H.; [Trias, F.X.](#); Gorobets, A.; [Oliva, A.](#); Yang, D.M.; Tan, Y.G.; Shen, Y., 2015. [Effect of collisions on the particle behavior in a turbulent square duct flow](#). POWDER TECHNOLOGY. Vol. 269, p. 320-336. ISSN 0032-5910. DOI 10.1016/j.powtec.2014.08.070.

**Factor impacte 2015 = 2.759 – Q1**

**11 citacions** – Zille, A.; [Fernandes, M.M.](#); Francesko, A.; [Tzanov, T.](#); Fernandes, M.; Oliveira, F.; Almeida, L.; Amorim, T.; Carneiro, N.; Esteves, M.; Souto, A., 2015. [Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma](#). ACS APPLIED MATERIALS & INTERFACES. Vol. 7, núm. 25, p. 13731-13744. ISSN 1944-8244. DOI 10.1021/acsami.5b04340.

**Factor impacte 2015 = 7.145 – Q1**

Articles indexats publicats per investigadors del Campus Terrassa: 2015



**10 citations** – [Capella](#), G.J.; Pou, J.; Ceballos, S.; [Zaragoza](#), J.; Agelidis, V.G., 2015. [Current-Balancing Technique for Interleaved Voltage Source Inverters With Magnetically Coupled Legs Connected in Parallel](#). IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Vol. 62, núm. 3, p. 1335-1344. ISSN 0278-0046. DOI 10.1109/TIE.2014.2345345.

**Factor impacte 2015 = 6.383 – Q1**

**10 citations** – Gonzalez, A.; [Riba](#), J.R.; Puig, R.; Navarro, P., 2015. [Review of micro- and small-scale technologies to produce electricity and heat from Mediterranean forests' woodchips](#). RENEWABLE & SUSTAINABLE ENERGY REVIEWS. Vol. 43, p. 143-155. ISSN 1364-0321. DOI 10.1016/j.rser.2014.11.013.

**Factor impacte 2015 = 6.798 – Q1**

**10 citations** – Mohammadi, M.; Madadi, H.; [Casals-Terre](#), J.; [Sellaes](#), J., 2015. [Hydrodynamic and direct-current insulator-based dielectrophoresis \(H-DC-iDEP\) microfluidic blood plasma separation](#). ANALYTICAL AND BIOANALYTICAL CHEMISTRY. Vol. 407, núm. 16, p. 4733-4744. ISSN 1618-2642. DOI 10.1007/s00216-015-8678-2.

**Factor impacte 2015 = 3.125 – Q1**



## Institucions amb més col·laboracions

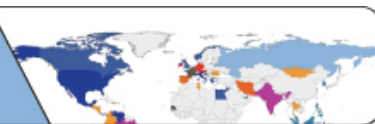


24 institucions amb 4 o més col·laboracions:

CSIC - CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	19
UB - UNIVERSITAT DE BARCELONA	14
AUTONOMOUS UNIVERSITY OF BARCELONA	10
ICREA - INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS	9
BIST - BARCELONA INSTITUTE OF SCIENCE TECHNOLOGY	8
CNRS - CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	8
ICFO - INSTITUT DE CIENCIES FOTONIQUES	8
TERMO FLUIDS SL	8
UNIVERSITY OF NEW SOUTH WALES	8
TECNALIA RES INNOVAT	6
UNIVERSIDAD DE LA REPUBLICA DE URUGUAY	6
ARISTOTLE UNIVERSITY OF THESSALONIKI	5
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE	5
FUKUOKA INSTITUTE OF TECHNOLOGY	5
POLYTECHNIC UNIVERSITY OF BUCHAREST	5
RUSSIAN ACADEMY OF SCIENCES	5
CHINESE ACADEMY OF SCIENCES	4
GUANGZHOU UNIVERSITY	4
KELDYSH INSTITUTE OF APPLIED MATHEMATICS	4
UPF - UNIVERSITAT POMPEU FABRA	4
UNIVERSIDAD DEL PAIS VASCO	4
UNIVERSIDAD DE SALAMANCA	4
XIANGTAN UNIVERSITY	4
XIDIAN UNIVERSITY	4



## Països amb més col·laboracions



24 països (sense constar Espanya) amb 3 o més col·laboracions:

FRANCE	16
USA	13
PEOPLES R CHINA	11
AUSTRALIA	11
JAPAN	9
ITALY	9
GERMANY	9
URUGUAY	7
SWITZERLAND	7
ENGLAND	7
AUSTRIA	7
RUSSIA	6
ROMANIA	6
POLAND	6
MEXICO	6
BRAZIL	6
GREECE	5
IRELAND	4
ARGENTINA	4
PORTUGAL	3
NORWAY	3
FINLAND	3
DENMARK	3
CANADA	3





## Àrees temàtiques amb més articles



38 grans àrees temàtiques (ISI) amb 5 o més articles:

ENGINEERING ELECTRICAL ELECTRONIC	38
MATERIALS SCIENCE MULTIDISCIPLINARY	24
MECHANICS	22
OPTICS	18
ENGINEERING CHEMICAL	18
AUTOMATION CONTROL SYSTEMS	18
ENERGY FUELS	17
PHYSICS APPLIED	16
MATHEMATICS APPLIED	16
ENGINEERING MECHANICAL	15
POLYMER SCIENCE	14
OPHTHALMOLOGY	12
COMPUTER SCIENCE THEORY METHODS	12
THERMODYNAMICS	11
ENGINEERING MULTIDISCIPLINARY	10
CHEMISTRY PHYSICAL	10
NANOSCIENCE NANOTECHNOLOGY	9
MATERIALS SCIENCE TEXTILES	9
INSTRUMENTS INSTRUMENTATION	9
MULTIDISCIPLINARY SCIENCES	8
MATHEMATICS INTERDISCIPLINARY APPLICATIONS	8
COMPUTER SCIENCE SOFTWARE ENGINEERING	8
COMPUTER SCIENCE INFORMATION SYSTEMS	8
CHEMISTRY MULTIDISCIPLINARY	8
CHEMISTRY APPLIED	8
BIOTECHNOLOGY APPLIED MICROBIOLOGY	8
BIOCHEMISTRY MOLECULAR BIOLOGY	8
PHYSICS MULTIDISCIPLINARY	7
METEOROLOGY ATMOSPHERIC SCIENCES	7
ENGINEERING CIVIL	7
COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS	7
BIOPHYSICS	7
PHYSICS MATHEMATICAL	6
OPERATIONS RESEARCH MANAGEMENT SCIENCE	6
GREEN SUSTAINABLE SCIENCE TECHNOLOGY	6
CONSTRUCTION BUILDING TECHNOLOGY	6
ENVIRONMENTAL SCIENCES	5
COMPUTER SCIENCE HARDWARE ARCHITECTURE	5



Articles  
més citats

2011-2015



20 articles més citats publicats entre el 2011 i el 2015 (a 31.12.2016):

**327 citacions** – [Rocabert, J.](#); [Luna, A.](#); [Blaabjerg, F.](#); [Rodriguez, P.](#), 2012. [Control of Power Converters in AC Microgrids](#). *IEEE Transactions on Power Electronics*. Vol. 27, núm. 11, p. 4734-4749. ISSN 0885-8993. DOI 10.1109/TPEL.2012.2199334.

**219 citacions** - [Rodriguez, P.](#); [Luna, A.](#); [Candela, J.](#); [Mujal, R.](#); [Teodorescu, R.](#); [Blaabjerg, F.](#), 2011. [Multiresonant Frequency-Locked Loop for Grid Synchronization of Power Converters Under Distorted Grid Conditions](#). *IEEE Transactions on Industrial Electronics*. Vol. 58, núm. 1, p. 127-138. ISSN 0278-0046. DOI 10.1109/TIE.2010.2042420.

**131 citacions** - [Rodriguez, P.](#); [Luna, A.](#); [Muñoz-Aguilar, R.S.](#); et al., 2012. [A Stationary Reference Frame Grid Synchronization System for Three-Phase Grid-Connected Power Converters Under Adverse Grid Conditions](#). *IEEE Transactions on Power Electronics*. Vol. 27, núm. 1. ISSN 0885-8993. DOI 10.1109/TPEL.2011.2159242.

**122 citacions** - [Pou, J.](#); [Zaragoza, J.](#); [Ceballos, S.](#); et al., 2012. [A Carrier-Based PWM Strategy With Zero-Sequence Voltage Injection for a Three-Level Neutral-Point-Clamped Converter](#). *IEEE Transactions on Power Electronics*. Vol. 27, núm. 2, p. 642-651. ISSN 0885-8993. DOI 10.1109/TPEL.2010.2050783.

**88 citacions** - [Fittipaldi, M.](#); [Nocker, A.](#); [Codony, F.](#), 2012. [Progress in understanding preferential detection of live cells using viability dyes in combination with DNA amplification](#). *Journal of microbiological methods*. Vol. 91, núm. 2, p. 276-289. ISSN 0167-7012. DOI 10.1016/j.mimet.2012.08.007.

**86 citacions** - [Perez-Cabre, E.](#); [Cho, M.](#); [Javidi, B.](#), 2011. [Information authentication using photon-counting double-random-phase encrypted images](#). *Optics Letters*. Vol. 36, núm. 1, p. 22-24. ISSN 0146-9592. DOI 10.1364/OL.36.000022.

**85 citacions** - [Cecati, C.](#); [Citro, C.](#); [Siano, P.](#), 2011. [Combined Operations of Renewable Energy Systems and Responsive Demand in a Smart Grid](#). *IEEE Transactions on Sustainable Energy*. Vol. 2, núm. 4, p. 468-476. ISSN 1949-3029. DOI 10.1109/TSTE.2011.2161624.

**80 citacions** - [Bonatto, C.](#); [Masoller, C.](#); et al., 2011. [Deterministic Optical Rogue Waves](#). *Physical Review Letters*. Vol. 107, núm. 5, p. 53901. ISSN 0031-9007. DOI 10.1103/PhysRevLett.107.053901.

**76 citacions** - [Betancur, R.](#); [Martorell, J.](#); et al., 2013. [Transparent polymer solar cells employing a layered light-trapping architecture](#). *Nature Photonics*. Vol. 7, núm. 12, p. 995-1000. ISSN 1749-4885. DOI 10.1038/NPHOTON.2013.276.

**72 citacions** - [Asally, M.](#); [Garcia-Ojalvo, J.](#); et al., 2012. [Localized cell death focuses mechanical forces during 3D patterning in a biofilm](#). *Proceedings of the National Academy of Sciences of the United States of America*. Vol. 109, núm. 46, p. 18891-18896. ISSN 0027-8424. DOI 10.1073/pnas.1212429109.



**67 citacions** - Busca, C.; [Rodriguez, P.](#); et al., 2011. [An overview of the reliability prediction related aspects of high power IGBTs in wind power applications](#). *Microelectronics Reliability*. Vol. 51, núm. 9-11, p. 1903-1907. ISSN 0026-2714. DOI 10.1016/j.microrel.2011.06.053.

**58 citacions** - [Luna, A.](#); [Rodriguez, P.](#); et al., 2011. [Simplified Modeling of a DFIG for Transient Studies in Wind Power Applications](#). *IEEE Transactions on Industrial Electronics*. Vol. 58, núm. 1, p. 9-20. ISSN 0278-0046. DOI 10.1109/TIE.2010.2044131.

**57 citacions** - Reyes, M.; [Rodriguez, P.](#); [Luna, A.](#); et al., 2012. [Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions](#). *IEEE Transactions on Power Electronics*. Vol. 27, núm. 9, p. 3934-3943. ISSN 0885-8993. DOI 10.1109/TPEL.2012.2190147.

**56 citacions** - Beltran, H.; [Rodriguez, P.](#); et al., 2013. [Evaluation of Storage Energy Requirements for Constant Production in PV Power Plants](#). *IEEE Transactions on Industrial Electronics*. Vol. 60, núm. 3, p. 1225-1234. ISSN 0278-0046. DOI 10.1109/TIE.2012.2202353.

**52 citacions** - [Valderrama, C.](#); et al., 2012. [Implementation of best available techniques in cement manufacturing: a life-cycle assessment study](#). *Journal of Cleaner Production*. Vol. 25, p. 60-67. ISSN 0959-6526. DOI 10.1016/j.jclepro.2011.11.055.

**49 citacions** - Senturk, O.S.; [Rodriguez, P.](#); et al., 2012. [Power Capability Investigation Based on Electrothermal Models of Press-Pack IGBT Three-Level NPC and ANPC VSCs for Multimegawatt Wind Turbines](#). *IEEE Transactions on Power Electronics*. Vol. 27, núm. 7, p. 3195-3206. ISSN 0885-8993. DOI 10.1109/TPEL.2011.2182661.

**48 citacions** - [Delgado, M.](#); Cirrincione, G.; [Garcia, A.](#); [Ortega, J.A.](#); Henao, H., 2013. [Bearing Fault Detection by a Novel Condition-Monitoring Scheme Based on Statistical-Time Features and Neural Networks](#). *IEEE Transactions on Industrial Electronics*. Vol. 60, núm. 8, p. 3398-3407. ISSN 0278-0046. DOI 10.1109/TIE.2012.2219838.

**47 citacions** - Perelshtein, I.; [Tzanko, T.](#); et al., 2013. [Chitosan and chitosan-ZnO-based complex nanoparticles: formation, characterization, and antibacterial activity](#). *Journal of Materials Chemistry B*. Vol. 1, núm. 14, p. 1968-1976. ISSN 2050-750X. DOI 10.1039/c3tb00555k.

**46 citacions** - Chen, H.-B.; [Sanchez-Soto, M.](#); et al., 2012. [Low flammability, foam-like materials based on ammonium alginate and sodium montmorillonite clay](#). *Polymer*. Vol. 53, núm. 25, p. 5825-5831. ISSN 0032-3861. DOI 10.1016/j.polymer.2012.10.029.

**45 citacions** - [Rodriguez, I.](#); Borrell, R.; [Lehmkuhl, O.](#); [Perez, C.D.](#); [Oliva, A.](#), 2011. [Direct numerical simulation of the flow over a sphere at Re=3700](#). *Journal of Fluid Mechanics*. Vol. 679, p. 263-287. ISSN 0022-1120. DOI 10.1017/jfm.2011.136.



## Articles indexats publicats per investigadors del Campus de Terrassa, 2015: nota metodològica

Aquest informe ha estat elaborat a partir de les publicacions incloses a la base de dades Web of Science.

Aquest recurs recull els articles d'investigadors del Campus de Terrassa de la UPC que compleixin les condicions següents:

- Hagin estat publicats durant l'any 2015.
- Els autors signin com a investigadors del Campus de Terrassa de la UPC o d'alguna de les seves escoles<sup>1</sup>.
- Pertanyin a alguna revista indexada al JCR (Journal Citation Reports) en l'edició del 2015.

Els resultats obtinguts han estat tractats amb un gestor de referències (Mendeley) per a la presentació de la bibliografia.

Els diferents informes presentats en aquest recurs s'han generat a partir de l'aplicació de les opcions "Analyze Results" i "Create Citation Report" als resultats obtinguts.

Per a cada autor del Campus s'ha afegit un enllaç a la fitxa de l'investigador de [FUTUR: Portal de la Producció Científica dels investigadors de la UPC](#). Per a cada article s'ha afegit, sempre que ha estat possible, un enllaç al DOI de la publicació.

La manca d'algun article en aquest recull pot estar causada per alguna d'aquestes causes:

- Articles que no hagin estat incorporats a la base de dades Web of Science (ISI).
- Articles en què no apareix la menció del Campus de Terrassa a la signatura dels autors.
- Errades en la indexació a la base de dades.

En cas de detectar alguna errada o mancança us podeu posar en contacte amb [biblioteca.campus.terrassa@upc.edu](mailto:biblioteca.campus.terrassa@upc.edu)



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